

Title (en)  
BIOMASS STOVE WITH REDUCED EMISSIONS

Title (de)  
BIOMASSEOVEN MIT GESENKTEN EMISSIONEN

Title (fr)  
POÊLE À BIOMASSE À ÉMISSIONS RÉDUITES

Publication  
**EP 3492814 B1 20210825 (EN)**

Application  
**EP 18209730 A 20181203**

Priority  
IT 201700139805 A 20171204

Abstract (en)  
[origin: EP3492814A1] The invention concerns a biomass stove, particularly a pellet stove, comprising a combustion chamber, an unburned gas storage chamber, a flue gas extractor fan device for extracting unburned gas from the storage chamber and for sending it to an exhaust flue, at least one air intake for feeding air from the outside to the inside of the combustion chamber. The combustion chamber comprises a brazier area adapted to receive the biomass and to generate combustible gas and a flame area intended for the combustion of combustible gas coming from the brazier area. There are a first series of apertures at the brazier area for supplying primary gas and a second series of apertures at the flame area for supplying secondary gas. The stove further comprises a branch intercepting the flue gases directed to the exhaust flue such to at least partially direct said flue gases to the primary gas inlet apertures.

IPC 8 full level  
**F23B 50/10** (2006.01); **F23B 80/02** (2006.01); **F23G 7/10** (2006.01); **F24B 1/02** (2006.01); **F24B 5/02** (2006.01)

CPC (source: EP)  
**F23B 50/10** (2013.01); **F23B 80/02** (2013.01); **F23G 7/10** (2013.01); **F24B 1/026** (2013.01); **F24B 5/026** (2013.01); **F24B 5/028** (2013.01); **F23G 2202/10** (2013.01)

Cited by  
IT202100007760A1; EP3865776A1; IT202000003050A1; WO2022208565A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
ME

DOCDB simple family (publication)  
**EP 3492814 A1 20190605; EP 3492814 B1 20210825**; ES 2899173 T3 20220310

DOCDB simple family (application)  
**EP 18209730 A 20181203**; ES 18209730 T 20181203